



GIS Methods, Models and Applications in Interdisciplinary Studies

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Message from the Guest Editor

Dear Colleagues,

This Special Issue welcomes papers that address:

- Application, validation, and comparison of results obtained by quantitative and qualitative spatial modelling, expert knowledge, deterministic models, etc. using GIS technology in environmental studies, geographical studies, engineering with an emphasis on the objective analysis of model representativeness and their degree of predictability in applied geomorphology, and natural and anthropic hazards and risk.
- Projects and applications related to technical issues for work focused on GIS technology applications in forest monitoring and evaluating the spatio-temporal distribution of forest and animal species under the pressure of climate change.
- Specific spatial analysis applications of GIS tools in built-up areas in different parts of the world and different states of development using remote sensing and satellite images.
- Evaluation of geospatial technologies and digital geomorphological mapping for fluvial dynamics assessment, landslides, and soil erosion, used in the context of individual and cumulative risk assessment.
- Information from long-term historical and actual field experimentation based on satellite images and UAV acquisition data in comparison with the current state-of-the-art in environmental studies.
- Studies related to the identification of favourable or restrictive areas for different land uses (agricultural, crop distribution, forestry or building spaces) in the current context of climate changes, with impacts on ecological factors influence (climatic, pedological, hydrological) and anthropogenic pressure involving the use of GIS technology to identify the evolution trends, the correlations between the factors, and the elaboration of land-use planning proposals.
- Integrating modern techniques of data acquisition in cadastre and technical documentation in order to increase productivity and mitigate field risk. Improvement of traditional topography and land surveys with the help of GIS applications.



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Special Issue